

## Datasheet: MCA1744PE

<b>Description:</b>	MOUSE ANTI HUMAN CD66e:RPE
<b>Specificity:</b>	CD66e
<b>Other names:</b>	CEA
<b>Format:</b>	RPE
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	C365D3 (NCRC23)
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	100 TESTS

### Product Details

#### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat - 1/10

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized

**Reconstitution**  
 Reconstitute with 1.0 ml distilled water  
 Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution

Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	RPE 488nm laser	496	578
	RPE 561nm laser	546	578

**Preparation**  
 Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

**Buffer Solution**  
 Phosphate buffered saline

**Preservative** 0.09% sodium azide (NaN<sub>3</sub>)  
**Stabilisers** 1% bovine serum albumin  
5% sucrose

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**External Database Links**

**UniProt:**  
[P06731](#)   [Related reagents](#)

**Entrez Gene:**  
[1048](#) CEACAM5   [Related reagents](#)

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**Synonyms** CEA

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**Fusion Partners** Spleen cells from immunised BALB/c mice were fused with cells of the mouse P3NSI myeloma cell line.

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**Specificity** **Mouse anti Human CD66e antibody, clone C365D3 (NCRC23)** recognizes human Carcinoembryonic antigen-related cell adhesion molecule 5, also known as CD66e, carcinoembryonic antigen, Meconium antigen 100, CEA or CEACAM5. CD66e is a 702 amino acid ~77 kDa GPI anchored membrane protein containing 7 [Ig-like domains](#). Mouse anti Human CD66e antibody, clone C365D3 does not cross-react with normal cross-reacting antigen (CD66c), or with biliary glycoprotein 1 (CD66a) as indicated by binding assays ([Price 1988](#), note: in this study Mouse anti Human CD66e antibody, clone C365D3 is designated as clone 6 (from author)).

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**Flow Cytometry** Use 10µl of the suggested working dilution to label 10<sup>6</sup> cells in 100µl

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- References**
1. Seth, J. *et al.* (1988) Carcinoembryonic antigen. [Lancet. 1 \(8599\): 1399.](#)
  2. Chao, A. *et al.* (2006) Molecular characterization of adenocarcinoma and squamous carcinoma of the uterine cervix using microarray analysis of gene expression. [Int J Cancer. 119: 91-8.](#)
  3. Stern-Ginossar, N. *et al.* (2007) Intercellular transfer of carcinoembryonic antigen from tumor cells to NK cells. [J Immunol. 179 \(7\): 4424-34.](#)
  4. Kalinina, T. *et al.* (2010) Establishment and characterization of a new human pancreatic adenocarcinoma cell line with high metastatic potential to the lung. [BMC Cancer.10: 295.](#)
  5. Soucek, K. *et al.* (2010) Fetal colon cell line FHC exhibits tumorigenic phenotype, complex karyotype, and TP53 gene mutation. [Cancer Genet Cytogenet. 197: 107-16.](#)
  6. Ferro, F. *et al.* (2011) Adipose tissue-derived stem cell in vitro differentiation in a three-dimensional dental bud structure. [Am J Pathol.178: 2299-310.](#)
  7. Dallas, M.R. *et al.* (2012) Divergent roles of CD44 and carcinoembryonic antigen in colon cancer metastasis. [FASEB J. 226: 2648-56.](#)
  8. Domenis, R. *et al.* (2015) Adipose tissue derived stem cells: in vitro and in vivo analysis of a standard and three commercially available cell-assisted lipotransfer techniques. [Stem Cell Res Ther. 6: 2.](#)
  9. Wicklein, D. *et al.* (2018) CEACAM1 promotes melanoma metastasis and is involved in the regulation of the EMT associated gene network in melanoma cells. [Sci Rep. 8 \(1\): 11893.](#)
  10. Caponnetto, F. *et al.* (2020) Human Adipose-Derived Stem Cells in Madelung's

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<b>Storage</b>	Prior to reconstitution store at +4°C. After reconstitution store at +4°C. DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #20487 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA1744PE">https://www.bio-rad-antibodies.com/SDS/MCA1744PE</a> 20487
<b>Regulatory</b>	For research purposes only

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## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:RPE \(MCA928PE\)](#)

### Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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